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INFORMAȚII PERSONALE	
Nume, prenume	LEONARD GIGEL MIHALY COZMUȚA
Adresa	Strada Trandafirilor 24F, Mocira, Maramures
Telefon	Mobil: 0742 588 575
Fax	+40 262 275368
E-mail	mihalyl@yahoo.com
Naționalitate	Romana
Data nașterii	13.10.1970
Stare civilă	Căsătorit, 2 copii
EXPERIENȚĂ PROFESIONALĂ	
Funcția și postul ocupat	<ul style="list-style-type: none"> ● 2009- prezent – Conferentiar, Catedra de Chimie-Biologie, Universitatea de Nord Baia Mare (actualmente Universitatea Tehnică din Cluj Napoca- Centrul Universitar Nord din Baia Mare) ● 2005- 2009 – Sef lucrari , Catedra de Chimie-Biologie, Universitatea de Nord Baia Mare <ul style="list-style-type: none"> ● 2002 – 2005 – Asistent universitar, Catedra de Chimie-Biologie, Universitatea de Nord Baia Mare ● 2000-2002 – Tehnician, Catedra de Chimie-Biologie, Universitatea de Nord Baia Mare ● 1995 - 1998 – inginer chimist la SC-I.C.P.M.-SA Baia-Mare
Activități și responsabilități principale	<p>● Activitati didactice si de cercetare:</p> <p>1. Activitati didactice cu studentii in domeniile : ● <i>Ape tehnologice si ape reziduale</i>: caracteristici fizico-chimice ale apelor reziduale rezultate din diferite tehnologii, metode de epurare, echipamente folosite in epurarea apelor, conditii de calitate; ● <i>Metode instrumentale de analiza</i>: utilizarea echipamentelor de analiza a probelor de sol, apa, aer, hrana; ● <i>Fenomene de transfer</i>: legile care stau la baza proceselor de transfer in diferite procese (inclusiv a poluantilor in mediu), a factorilor care le influenteaza; 2. Spectrometrie de absorbtie moleculara: utilizarea tehnicilor spectrometrice in analiza poluantilor din mediu.</p> <p>2. Activitatea de cercetare: desfasurata in cadrul contractelor de cercetare, a fost orientata spre monitorizarea poluarii in zone miniere, elaborarea hartilor de risc, elaborarea unor tehnologii de reabilitare a zonelor afectate de poluare (conform Activitatii Stiintifice).</p>
Numele și adresa angajatorului	2000-prezent: Universitatea de Nord Baia Mare (actualmente Universitatea Tehnică din Cluj Napoca- Centrul Universitar Nord din Baia Mare), Departamentul de Chimie Biologie, Str. Dr. Victor Babes 62A, 430083, Baia Mare, Maramures
Tipul activității sau sectorul de	Învățământ superior

activitate	Cercetare stiintifica
EDUCAȚIE ȘI FORMARE	
Studii de baza	
Perioada	2000-2004
Calificarea/diploma obtinuta	Doctor in inginerie chimica /diploma de doctor
Numele și tipul instituției de învățământ/furnizorului de formare	Universitatea Politehnica Bucuresti, Facultatea de Inginerie Chimica
Perioada	2006-2008
Calificarea/diploma obtinuta	Diploma de master
Numele și tipul instituției de învățământ/furnizorului de formare	Universitatea de Nord din Baia Mare Master : <i>Metode de analiza utilizate in controlul calitatii mediului si produselor</i>
Perioada	1990-1995
Calificarea/diploma obtinuta	Inginer chimist/diploma de licenta
Numele și tipul instituției de învățământ/furnizorului de formare	Universitatea Politehnica Bucuresti, Facultatea de Inginerie Chimica
Perioada	1986-1989
Calificarea/diploma obtinuta	Profil electrotehnic/diploma de bacalaureat
Numele și tipul instituției de învățământ/furnizorului de formare	Liceul Somcuta Mare, Maramures
Stagii de cercetare	
1-30.08. 2011	Universitatea Wits din Johannesburg, Facultatea de Chimie, Africa de Sud – Domeniul: reabilitare soluri poluate, folosire zeoliti pentru recuperare metale utile din ape uzate
01.05.2009-15.05.2009	Universitatea Wits din Johannesburg, Facultatea de Chimie, Africa de Sud - Domeniul: reabilitare soluri poluate, folosire zeoliti pentru recuperare metale utile din ape uzate
01.05.2008-31.07.2008	Stagiu de cercetare Polonia – Universitatea Nicolaus Copernicus, Torun, Facultatea de Chimie, Departamentul de Chimia Mediului – Domeniul; Educatie in separarea si identificarea xenobioticelor organice in probele de mediu si produse alimentare,
05.03.2007-05.06.2007	Stagiu de cercetare Polonia – Universitatea Nicolaus Copernicus, Torun, Facultatea de Chimie, Departamentul de Chimia Mediului – Domeniul; Educatie in separarea si identificarea xenobioticelor organice in probele de mediu si produse alimentare,
Disciplinele principale studiate/competențe profesionale dobandite	Studii de baza In cadrul studiilor din domeniul ingineriei chimice au fost prevazute ca discipline principale: <i>Chimia anorganica, Chimia organica, Chimie analitica si analiza instrumentala, Fenomene de transfer, Tehnologii chimice, Protectia mediului.</i> Studiul acestora mi-a permis acumularea cunostintelor de baza privitoare la elementele chimice, a proprietatilor lor fizice si chimice, a proceselor care stau la baza principalelor tehnologii chimice anorganice si organice, a poluantilor generati de industria chimica, tehnici de analiza a poluantilor, modul de dispersie al acestora, precum si a impactului pe care il au asupra mediului si a principiile care stau la baza reabilitarii

	<p>zonelor afectate.</p> <p>Stagii de cercetare</p> <p>1) Activități de cercetare legate de utilizarea diferitelor tipuri de zeoliti la reabilitarea solurilor poluate cu metale grele (Cu, Pb, Zn, Mn, etc.)</p> <p>2) Activități de cercetare privitoare la impactul poluanților (metale grele, pesticide), asupra sănătății umane</p> <p>3) Activități de cercetare privitoare la abordarea interdisciplinară a problemelor ecologice și ecotoxicologice și utilizarea tehnicilor de analiză avansate (cromatografia lichidă și gazoasă) în monitorizarea și controlul poluării mediului cu substanțe organice (pesticide, detergenți, etc.)</p> <p>Ca și competențe profesionale dobândite în urma participării la stagiile de cercetare menționez: • tehnici de colectare și pregătire a probelor de mediu; • utilizarea metodelor cromatografice avansate (electroforeza capilară) în analiza poluanților organici din mediu; • prelucrarea și interpretarea statistică a datelor experimentale utilizând programul ORIGIN, STATISTICA, SPSS; • tehnici de spectrometrie atomică folosite la analiza metalelor grele în mediu (AAS, AES, AAS-MS, etc.);</p> <p>• monitorizarea și evaluarea nivelului de poluare a mediului și elaborarea hartilor de risc pentru zonele contaminate;</p>
APTITUDINI ȘI COMPETENȚE PERSONALE	
Limba(i) maternă(e)	Romana
Limba(i) străină(e) cunoscută(e)	Engleza
Autoevaluare	Intelegere Vorbire Scriere
<i>Nivel european (*)</i>	Ascultare Citire Participare la Discurs Exprimare conversatie oral scrisa
Engleza	B1 B1 B1 B1 B1 (utilizator independent)
Competențe și abilități sociale	Capacitate bună de adaptare la schimbările sociale
Competențe și aptitudini organizatorice	Manager de proiecte
Competențe și aptitudini tehnice	Calibrare și utilizare aparatură de analize fizico-chimice
Competențe și aptitudini de utilizare a calculatorului	Operare PC (Windows, Excel, Origin, Table Curve, SPSS, Power Point, Statistica, programe specifice domeniului Chimie, navigare internet, etc.)
Permis(e) de conducere	Categoria B
Informații suplimentare	Persoana de contact: Decan Facultatea de Științe: Prof.dr. Nicolae Pop Tel: 0262-276059 E-mail: nicpop@gmail.com
Anexe	Activitatea științifică

ACTIVITATE ȘTIINȚIFICĂ

1. TEZA DE DOCTORAT

STUDII FIZICO-CHIMICE ÎN EPURAREA APELOR REZIDUALE DIN INDUSTRIA MINIERĂ CU RECUPERAREA UNOR ELEMENTE UTILE – 9.12.2006

Coordonator :

Prof.dr. ing. Teodor Visan – Facultatea de Inginerie Chimică, Universitatea Politehnică București

Domeniul: Inginerie chimică

2. CĂRȚI PUBLICATE ÎN EDITURI ACREDITATE CNCIS

2.1. A. Mihaly Cozmuta, L. Mihaly Cozmuta, 2007 – *Chimie generală – curs*, Editura Risoprint, 189 pagini, ISBN 978-973-751-412-7

2.2. A. Mihaly Cozmuta, L. Mihaly Cozmuta, C. Varga, 2006 - *Metode neconventionale de recuperare a metalelor din solutii apoase. I. Recuperarea electrochimică a cuprului din ape uzate folosind electrozi în pat fluidizat*, Editura Risoprint –Cluj Napoca, 183 pagini, ISBN : 973-751-355-5 978-973-751-335-9

2.3. L. Mihaly Cozmuta, A. Mihaly Cozmuta, C. Varga, 2006 - *Metode neconventionale de recuperare a metalelor din solutii apoase II. Recuperarea unor metale utile în epurarea apelor reziduale din industria minieră*, Editura Risoprint–Cluj Napoca, 212 pagini. ISBN : 973-751-355-X 978-973-751-355-7

2.4. A. Mihaly Cozmuta, L. Mihaly Cozmuta, 2002 – *Lucrări practice de chimie generală*, Editura Risoprint – Cluj Napoca, 80 pagini ISBN 973-656-185-2

3. ARTICOLE ȘTIINȚIFICE

3.1. LUCRARI PUBLICATE ÎN REVISTE COTATE ISI

3.1.1. L. Mihaly-Cozmuta, A. Mihaly-Cozmuta, A. Peter, C. Nicula, H. Tutu, Dan Silipas, Emil Indrea - *Adsorption of heavy metal cations by Na-clinoptilolite: Equilibrium and selectivity studies*, Journal of Environmental Management 137 (2014) 69-80.

3.1.2. E.N.Bakatula, E.M. Cukrowska, I.M. Weiersbye, L. Mihaly-Cozmuta, A.Peter and H. Tutu, *Biosorption of trace elements from aqueous systems in gold mining sites by the filamentous green algae (Oedogonium sp.)*, Journal of Geochemical Exploration, manuscript ID: GEXPLO3298.

3.1.3. Anca Peter, Leonard Mihaly-Cozmuta, Anca Mihaly-Cozmuta, and Camelia Nicula, *Photocatalytic Efficiency of Zeolite-Based TiO₂ Composites for Reduction of Cu (II): Kinetic Models*, International Journal of Applied Ceramic Technology, 1–14 (2013) DOI:10.1111/ijac.12046.

3.1.4. Anca Peter, Leonard Mihaly-Cozmuta, Anca Mihaly-Cozmuta, Camelia Nicula, Lucian Barbu Tudoran, Lucian Baia, *Efficiency of Cu/TiO₂ to Remove Salicylic Acid by Photocatalytic Decomposition: kinetic modeling*, Materials Technology, (2013), No. MTE259, DOI:10.1179/1753555713Y.0000000121, <http://www.maneyonline.com/doi/abs/10.1179/1753555713Y.0000000121>.

3.1.5. Anca Peter, Leonard Mihaly-Cozmuta, Anca Mihaly-Cozmuta, Camelia Nicula, Emil Indrea, Hlanganani Tutu - *Calcium- and ammonium ion-modification of zeolite amendments affects the metal-uptake*

- of *Hieracium piloselloides* in a dose-dependent way, *Journal of Environmental Monitoring*, 2012, 14, 2807-2814
- 3.1.6.** Anca Mihaly Cozmuta, Laura Bretan, Leonard Mihaly Cozmuta, Camelia Nicula and Anca Peter- *Lead traceability along soil-melliferous flora-bee family-apiary products Chain*, *Journal of Environmental Monitoring*, 2012, 14, 1622-1630
- 3.1.7.** A. Peter, E. Indrea, A. Mihaly-Cozmuta, L. Mihaly-Cozmuta, C. Nicula et al. - *Dual efficiency of nano-structured TiO₂/zeolyte systems in removal of copper (II) and lead (II) ions from aqueous solution under visible light*, *AIP Conf. Proc.* 1425, 139 (2012); doi: 10.1063/1.3681986
- 3.1.8.** L. Mihaly Cozmuta, A. Mihaly Cozmuta, A. Peter, C. Nicula, E. Bakatula Nsimba, H. Tutu - *The influence of pH on the adsorption of lead by Na-clinoptilolite: kinetic and equilibrium studies*, *Water SA*, Aprilie 2012, vol.38(2), 269-278
- 3.1.9.** A.Peter, C. Nicula, A. Mihaly Cozmuta, L. Mihaly Cozmuta - *Chemical and sensory changes of different dairy products during storage in packages containing nano-crystallized TiO₂*, *International Journal of Food Science and Technology*, 47, 1448–1456, 2011
- 3.1.10.** A. Peter, M. Marian, C. Nicula, L. Mihaly Cozmuta, A. Mihaly Cozmuta, E. Indrea - *The sorptive performance of microorganisms-zeolite systems to remove Cu²⁺, Zn²⁺, Cd²⁺, Fe²⁺ AND Pb²⁺*, *Revue Roumaine de Chimie*, 2011, vol 56, nr. 9, 847-852, ISSN: 0035-3930, FI = 0.311
- 3.1.11.** A. Peter, C. Nicula, A. Mihaly-Cozmuta, L. Mihaly-Cozmuta, E. Indrea, V. Danciu, H. Tutu, E. Bakatula Nsimba- *Efficiency of amendments based on zeolite and bentonite in reducing the accumulation of heavy metals in tomato organs (Lycopersicum esculentum) grown in polluted soils*, *African Journal of Agricultural Research* Vol. 6(21), pp. 5010-5023, 5 October, 2011
<http://www.academicjournals.org/ajar/contents/2011%20cont/5%20Oct.htm>
- 3.1.12.** A. Dumuta, L. Giurgiulescu, L. Mihaly-Cozmuta, Z. Vosgan - *Milk physical - chemical characteristics variation due to the microwave action*, *Croatica Chemica Acta*, CCA Vol. 84(2011)
- 3.1.13.** M. Sprynskyy; T. Kowalkowski, H. Tutu, L. Mihaly Cozmuta, E. Cukrowska, B. Buszewski - *The Adsorption Properties of Agricultural and Forest Soils Towards Heavy Metal Ions (Ni, Cu, Zn, and Cd)*. *Soil and Sediment Contamination: An International Journal*, 2011, 20: 1, 12— 29
- 3.1.14.** T. Kowalkowski, H. Tutu, L. Mihaly Cozmuta, M. Sprynskyy, E. Cukrowska, B. Buszewski - *Assessment of mobility of heavy metals in two soil types by use of column leaching experiments and chemometric evaluation of elution curves* *International Journal of Environmental Analytical Chemistry*, Vol. 90, No. 10, Ianuarie 2010, 797–811.
- 3.1.15.** C. Varga, M. Marian, A. Peter, D. Boltea, L. Mihaly-Cozmuta, E. Nour- *Strategies of heavy metal uptake by phaseolus vulgaris seeds growing in metalliferous and non-metalliferous areas.*, *Studia universitatis Babes Bolyai*, No. 3, vol. 54, p.223-224;
http://www.studia.ubbcluj.ro/arhiva/cuprins_en.php?id_editie=454&serie=chemia&nr=3&an=2009
- 3.1.16.** V. Oros, M. Coman, M. Marian, L. Mihaly-Cozmuta, A. Mihaly Cozmuta - *Preliminary investigation aimed to ecological reclaiming by phytoremediation of a large flotation tailing dump in Baia Mare mining area*, *Environmental Engineering and Management Journal*, nr 4, vol. 8, pag. 915-922, 2009.
- 3.1.17.** L. Mihaly Cozmuta, Camelia Varga, Monica Marian, Anca Mihaly Cozmuta, Tutu Hlanganani, 2008 – *Applying of artificial neuronal networks in modeling of ionic exchange copper recovery process*, *Revista de Chimie (ISI)*, Nr. 7, p.766 - 772 , ISSN 0034-7752.
- 3.1.18.** A. Mihaly Cozmuta, L. Mihaly Cozmuta, C. Varga, 2007 – *Electrochemical recovery of copper from wastewaters using graphite volumic electrode*, *Revista de Chimie*, Nr. 12, p.12-32, ISSN 0034-7752 (ISI)
- 3.1.19.** L. Mihaly Cozmuta, T. Visan, A. Mihaly Cozmuta, 2006 – *Energetically aspects regarding the adsorbtion of heavy metals on natural zeolites. The influence of pH on copper adsorbtion*, *Revista de Chimie*, vol. 57(11), ISSN 0034-7752, (ISI)
- 3.1.20.** A. Mihaly Cozmuta, L. Mihaly Cozmuta, Gh. Vatca, 2003 – *Mathematic modelling of copper recovery process from wastewaters. III. The kinetic of cathodic reaction*, *Revista de Chimie*, vol. 54 (1), p. 20-24, ISSN 0034-7752

- 3.1.21.** V. Viman, M. Morar, Gh. Vatca, A. Mihaly Cozmuta, L. Mihaly Cozmuta, 2003 – Pollution of soil with heavy metals, *Revista de Chimie*, vol. 54 (2), p. 155-158, ISSN 0034-7752 (ISI)
- 3.1.21.** A. Mihaly Cozmuta (Mihai), L. Mihaly Cozmuta, C. Toader, 2002 – *Mathematic modelling of copper recovery process from wastewaters.II. The calculation of catodic bed's heigh*, *Revista de Chimie*, vol. 53 (9), p. 595-602, ISSN 0034-7752 (ISI)
- 3.1.22.** A. Mihaly Cozmuta (Mihai), L. Mihaly Cozmuta, 2002 – *Mathematic modelling of copper recovery process from wastewaters. I. Polarisation curves*, *Revista de Chimie*, vol. 53 (6), p. 450-455, ISSN 0034-7752, (ISI)

3.2. LUCRARI PUBLICATE IN REVISTE DE SPECIALITATE B+/BDI

- 3.2.1.C.** Nicula, A. Peter, L. Mihaly-Cozmuta, A. Mihaly-Cozmuta, THE UPTAKE OF HEAVY METALS IN *Phaseolus vulgaris* AND *Zea mays* SEEDS HARVESTED FROM POLLUTED AND UNPOLLUTED AREAS, *Carpathian Journal of Food Science and Technology* 2013, 5(1-2), 1-8.
- 3.2.2.A.** Peter, A. Mihaly-Cozmuta, L. Mihaly-Cozmuta, C. Nicula, NANOSENSOR BASED ON TiO₂ FOR DETECTION OF OXYGEN IN DAMAGED VACUUM PACKAGES, *Carpathian Journal of Food Science and Technology* 2013, 5(1-2), 9-12.
- 3.2.3.A.** Mihaly Cozmuta, A. Conea, A. Peter, A. Mihaly-Cozmuta, L. Mihaly-Cozmuta, C. Nicula, STUDY THE INFLUENCE OF WORK PARAMETERS ON THE LEACHABILITY OF MINERAL ELEMENTS INTO THE COFFEE INFUSION, *Carpathian Journal of Food Science and Technology* 2013, 5(1-2), 23-35.
- 3.2.4.C.** Nicula, M. Sisestean, A. Mihaly-Cozmuta, A. Peter, L. Mihaly-Cozmuta, NITRATE AND NITRITE CONTENT IN VARIOUS TYPES OF CUCUMBERS AND OPTIONS TO REDUCE IT, *Carpathian Journal of Food Science and Technology* 2013, 5(1-2), 36-44
- 3.2.5.** Anca Peter, Loredana Roatis, Camelia Nicula, Anca Mihaly-Cozmuta, Leonard Mihaly-Cozmuta, Combined use of paper or LDPE and natural extracts from *Satureja hortensis* and *Allium sativum* for the preservation of the summer salame, *Carpathian Journal of Food Science and Technology*, 2012, 4(2), 18-27.
- 3.2.6.** Camelia Nicula, Dora Lungu, Anca Peter, Anca Mihaly-Cozmuta, Leonard Mihaly-Cozmuta, Curd cheese stored in modified packaging with extract of garlic and thyme: variation of some physico-chemical parameters, *Carpathian Journal of Food Science and Technology*, 2012, 4(2), 1-8.
- 3.2.7.** Camelia Nicula, Monica Marian, Leonard Mihaly Cozmuta, Anca Peter, Anca Mihaly Cozmuta, 2010 – Adaptative mechanisms of *Phaseolus vulgaris* and *Zea mays* seeds grown in agroecosystem prone to pollution with heavy metals, *Analele Universitatii din Oradea, Fascicula Biologie*, XVII (1), p. 147-151, . ISSN 1224 – 5119 – p. 141-149 (<http://www.bioresearch.ro/revistaen.html>) (BDI)
- 3.2.8.** I. Smical, L. Mihaly-Cozmuta, D. Costin - *Use of natural zeolites from Maramures county (Romania) in removal of Cu²⁺, Pb²⁺, Zn²⁺ ions from industrial wastewaters*, AES Bioflux, 2010, Volume 2, Issue 2., 181-188, 2010
- 3.2.9.** I. Smical, L. Mihaly-Cozmuta, D. Costin - Research concerning the influence of several factors on Pb²⁺, Cu²⁺ and Zn²⁺ ions adsorption by natural zeolite tuff from Maramureş county, Northern Romania, AES Bioflux, 2010, Volume 2, Issue 2., 171-180
- 3.2.10.** Monica Marian, Camelia Varga, Leonard Mihaly-Cozmuta, Anca Mihaly-Cozmuta, 2009-EVALUATION OF THE PHYTOREMEDIATION POTENTIAL OF THE *SALIX CAPREA* IN TAILING PONDS, 2009, *Analele Universitatii din Oradea, Ed. Universitatii din Oradea, Tom XIV*. ISSN 1224 – 5119 – p. 141-149, (<http://www.bioresearch.ro/revistaen.html>) (BDI)
- 3.2.11.** Monica Marian, Leonard Mihaly Cozmuta, Camelia Varga, Anca Mihaly Cozmuta, Eugen Nour, 2009 - "Vegetation dynamics depending on ecological particularities of Bozanta Mare (Maramures County – Romania) tailing pond – case study" - revista AJES American Journal of Environmental Sciences, Science Publications, PO Box 879, Vails Gate Hgts Drive, Vails Gate. New York, 12584, USA, ISSN 1553-345X, 5(1):116-123
- 3.2.12.** Monica Marian, Camelia Varga, Leonard Mihaly-Cozmuta, Anca Mihaly-Cozmuta, EVALUATION OF THE PHYTOREMEDIATION POTENTIAL OF THE *QUERCUS PETRAEA* IN TAILING PONDS,

2008, Studia Universitatis Vasile Goldis Arad, Seria Stiintele Vietii, Vol. 18/2008, ISSN 1453-1038, p.71-76, BDI indexed in Zoological Records: <http://scientific.thomsonreuters.com/cgi-bin/jrnlst/jlresults.cgi?PC=MASTER&Word=goldis> (BDI)

3.2.13. Marian, Monica, Varga, Camelia, Mihaly-Cozmuta, Leonard, Peter, Anca, Mihaly-Cozmuta, Anca, Boltea, Delia, EVALUATION OF THE PHYTOREMEDIATION POTENTIAL OF THE POPULUS TREMULA IN TAILING PONDS, acceptata spre prezentare la Conferinta The 8th International Symposium "PROSPECTS FOR THE 3rd MILLENNIUM AGRICULTURE" ; Buletinul UASVM nr. 66, indexed in CAB Abstracts, ISI Proceedings, Thomson Reuters Master Journal List, VINITI (BDI)

3.2.13. Monica Marian, Leonard Mihaly-Cozmuta, Camelia Varga, Anca Mihaly-Cozmuta, 2008- *The ecology of the phytocoeno-genesis process in the tailing ponds in Maramures county*, 2008, Natura Montenegrina, nr. 7 (3), p. 41-55, ISSN 1451-5776, Podgorica. (ISI).

3.2.14. Camelia Varga, Monica Marian, Leonard Mihaly-Cozmuta, Anca Mihaly-Cozmuta, 2008- *The growth dynamics of selected trees in sites polluted with heavy metals neighboring Baia Mare (Romania)*, 2008, Natura Montenegrina, nr. 7 (3), p. 57-69, ISSN 1451-5776, Podgorica. (ISI)

3.2.15. Marian, M., Varga, C., Mihaly-Cozmuta, L., Mihaly-Cozmuta, A., Mihalescu, L., Roșca-Mare, O., Blidar, C.F., 2008. *Variance analysis on different trees species depending on soil type – uncontaminated and heavy metals contaminated ones*. Analele Univ. din Oradea, Fasc. Biologie, Tom XIV, Ed. Univ. din Oradea, ISSN: 1224-5119, Oradea, p. 41-46. (BDI)

3.2.16. Monica Marian, Leonard Mihaly Cozmuta, Camelia Varga, Lucia Mihalescu, Oana Rosca Mare, Anca Mihaly Cozmuta- *THE MINING ACTIVITIES IMPACT OF THE VEGETAL ASSOCIATIONS INSTALLATION ON BOZANTA MARE TAILINGS PONDS FROM NON-FERROUS ORES MINING AREA*, 2008, Studia Universitatis Vasile Goldis Arad, Seria Stiintele Vietii, <http://scientific.thomsonreuters.com/cgi-in/jrnlst/jlresults.cgi?PC=MASTER&Word=goldis>

3.2.17. Monica Marian, Camelia Varga, Leonard Mihaly Cozmuta, Lucia Mihalescu, Oana Rosca, Anca Mihaly Cozmuta - *RESEARCH REGARDING THE ALIEN PLANT SPECIES IN THE SATU MARE COUNTY*, 2008, Studia Universitatis Vasile Goldis Arad, Seria Stiintele Vietii, Vol. 18/2008, ISSN 1453-1038, p. 359-365. (BDI)

<http://scientific.thomsonreuters.com/cgi-bin/jrnlst/jlresults.cgi?PC=MASTER&Word=goldis>

3.2.18. Monica Marian, Leonard Mihaly-Cozmuta, Camelia Varga, Anca Mihaly-Cozmuta, 2008- *The ecology of the phytocoeno-genesis process in the tailing ponds in Maramures county*, 2008, Natura Montenegrina, nr. 7 (3), p. 41-55, ISSN 1451-5776, Podgorica (ISI)

3.2.19. Camelia Varga, Monica Marian, Leonard Mihaly-Cozmuta, Anca Mihaly-Cozmuta, 2008- *The growth dynamics of selected trees in sites polluted with heavy metals neighboring Baia Mare (Romania)*, 2008, Natura Montenegrina, nr. 7 (3), p. 57-69, ISSN 1451-5776, Podgorica. (ISI)

3.2.20. V. Viman, A. Mihaly Cozmuta, L. Mihaly Cozmuta, M. Dobra, Gh. Vatca, 2006 – *The study of environment pollution with heavy metals by means of the emission spectrometry method*, Inductively Coupled Plasma Discharges for Spectrochemical Analysis – ICP Information Newsletter-USA, vol. 31, p. 322, ISSN 0161-6951, *The Smithsonian/NASA Astrophysics Data System, Analytical Abstracts (Royal Society of Chemistry), Russian Chemical Abstracts Journal*

3.2.21. V. Viman, L. Mihaly Cozmuta, A. Mihaly Cozmuta, Gh. Vatca, C. Varga, G. Oprea, 2005 – *Mathematical modeling of pollutants' dispersion in soil. I. Case study of copper dispersion*, American Journal of Environmental Sciences, 1(2), p. 126-129, ISSN 1553-345X, *indexat in bazele de date: Ulrich, DOAJ, CSA, WAD, Med-Asia, Biotechnology Abstract, PTA, Biosciences Abstracts, ASA, INSPEC, IEE, genomics, EBSCO, Thompson Gale, EMBiology, SCOPUS*

3.2.22. L. Mihaly Cozmuta, T. Visan, A. Mihaly Cozmuta, C. Varga, V. Viman, Gh. Vatca, 2005 – *Energetic aspects related to heavy metals adsorption on the surface of volcanic tuff. I. The influence of activation parameters in Cu²⁺ adsorption*, American Journal of Environmental Sciences, 1(2), p. 159 -163, ISSN 1553-345X, *indexat in bazele de date: Ulrich, DOAJ, CSA, WAD, Med-Asia, Biotechnology Abstract, PTA, Biosciences Abstracts, ASA, INSPEC, IEE, genomics, EBSCO, Thompson Gale, EMBiology, SCOPUS*

- 3.2.23.** A. Mihaly Cozmuta, L. Mihaly Cozmuta, V. Viman, Gh. Vatca, C. Varga, 2005 – *Spectrometric methods used to determine heavy metals and total cyanides in accidental polluted soils*, American Journal of Applied Sciences, 2(1), p. 358-362, ISSN 1546-9239, indexat in bazele de date: DOAJ, INSPEC, ProQuest, Ulrich, CAS, WAD, Textile Abstract, PTA, ASA, Genamics. Thompson Gale, Thompson ISI, SCOPUS
- 3.2.24.** V. Viman, A. Mihaly Cozmuta, L. Mihaly Cozmuta, M. Dobra, Gh. Vatca, 2004 – *Spectrometric methods used for determination of heavy metals in polluted soils*, Inductively Coupled Plasma Discharges for Spectrochemical Analysis – ICP Information Newsletter-USA, vol. 29, p. 250-251, ISSN 0161-6951, indexat in baza de date: The Smithsonian/NASA Astrophysics Data System, Analytical Abstracts (Royal Society of Chemistry), Russian Chemical Abstracts Journal
- 3.2.25.** L. Mihaly Cozmuta, A. Mihaly Cozmuta, C. Varga, Gh. Hotea, 2004 – *Study about the recovery of Zn from acid mine drainage*, Journal of Mining and Metallurgy, 40(1), p. 65-74, ISSN 1450-5959, indexat în bazele de date: Chemical Abstracts, Viniti (all Russian institute of scientific and technical information of the Russian Academy of Sciences), SSCI (Serbian scientific data base).

3.3. LUCRARI PUBLICATE IN REVISTE DE TIP B

- 3.3.1. L. Mihaly Cozmuta**, A. Mihaly Cozmuta, C. Varga, A. Peter, 2004 - *Study about the affinity for heavy metals of spontaneous vegetation that grows up on the walls of the tailing ponds*, Studia Universitatis Babes-Bolyai Chemia, XLIX, 1, p. 164-168, ISSN 1224-7154
- 3.3.2.** A. Mihaly Cozmuta, **L. Mihaly Cozmuta**, C. Varga, 2003 – *Mathematic modeling of the copper recovery process from wastewaters using a volumic electrode*, 11th Physical Chemistry Conference with International Participation ROMPHYSICHEM 11, Timisoara Romania, September 2-5, Analele Universitatii de Vest Timisoara, Seria Chimie, vol. 12, nr. 1/2003, p. 597-608, ISSN 1453-7672

3.4. LUCRĂRI PUBLICATE LA CONFERINȚE /SIMPOZIOANE

- 3.4.1.** Anca Mihaly Cozmuta, Anca Peter, Leonard Mihaly Cozmuta, Camelia Nicula, Calin Cadar - *Active packaging system based on Ag/TiO₂ nano-composite applied in preserving the wheat bread during storage. I. Changes in physical parameters*, The 4th International Conference on Food Chemistry, Engineering & Technology, May 30 – 31, 2013, Timișoara- Romania, pag. 34.
- 3.4.2.** Calin Cadar, Anca Mihaly-Cozmuta, Anca Peter, Camelia Nicula, Leonard Mihaly-Cozmuta, Marius Metenti, Ag/TiO₂ based on nanomaterials used in food preservation, 13th international Symposium and Summer school on Bioanalysis-Debrecen, iulie 2013, P3.
- 3.4.3.** A Peter, E Indrea, A Mihaly-Cozmuta, L Mihaly-Cozmuta, C Nicula, H Tutu, E Bakatula, *Dual efficiency of nano-structured TiO₂ / zeolite systems in removal of copper (II) and lead (II) ions from aqueous solution under visible light*, PROCESSES IN ISOTOPES AND MOLECULES (PIM 2011) SEPTEMBER 29 - OCTOBER 01 CLUJ-NAPOCA, ROMANIA, AIP Conf. Proc. 1425, pp. 139-143, 2011;
- 3.4.4.** A. Mihaly Cozmuta, L. Bretan, D. Boltea, L. Mihaly Cozmuta, M. Marian, A. Peter, C. Varga, 2009 – *Traceability of heavy metals along of soil-plant-honey chain*, CECE'2009 - 6th International Interdisciplinary Symposium on Bionalysis, Pécs, November 6-7, 2009
- 3.4.5.** M. Marian, C. Varga, L. Mihaly Cozmuta, A. Peter, A. Mihaly Cozmuta, D. Boltea, 2009 – *Evaluation of Phytoremediation Potential of the Populus tremula in Tailing Ponds*, Buletin USAMV Agricultura Cluj Napoca, vol 66, nr. 2, 124-131, 2009.
- 3.4.6.** C. Varga, M. Marian, L. Mihaly Cozmuta, A. Mihaly Cozmuta – *Bio-accumulation of heavy metals in tailings dam vegetal species*, IAR Regional Conference on Geomorphology – Landslide, Floods and Global Environmental Change in Mountain regions, 15 – 26 septembrie 2008, Brasov.

- 3.4.7.** Monica Marian, Camelia Varga, Leonard Mihaly Cozmuta, Anca Mihaly Cozmuta, 2008 – *Growth particularities of vegetal species in heavy metals-bearing soil*, IAR Regional Conference on Geomorphology – Landslide, Floods and Global Environmental Change in Mountain regions, 15 – 26 septembrie 2008, Brasov.
- 3.4.8.** Marian Monica, Camelia Varga, Mihaly Cozmuta Leonard, Mihaly Cozmuta Anca, 2008- *Tradition and modernity in the biochemistry of vegetal resources in Maramures*, IX Congreso “Cutura Europea” Pamplona 24-27 oct. 2007.
- 3.4.9.** Marian Monica, Coman Mirela, Mihaly–Cozmuta Leonard, Varga Camelia, Mihaly Cozmuta Anca, 2008 - Research regarding the alien plants species in the surrounding of Satu Mare town (Satu Mare county) in North-West of Romania, 17th International Workshop "European Vegetation Survey" Brno, Czech Republic, 1-4 May 2008.
- 3.4.10.** Marian, Monica, Mihaly–Cozmuta, L., Varga, Camelia, Coman, Mirela, Mihaly Cozmuta Anca, 2008 - *The installation of primary vegetation on tailing ponds from non ferrous ores mining area in N-W Carpathians*, 17th International Workshop "European Vegetation Survey" Brno, Czech Republic, 1-4 May 2008
- 3.4.11.** Varga Camelia, Marian Monica, Mihaly–Cozmuta L., Coman Mirela, Mihaly Cozmuta Anca, Mare Rosca Oana, 2008 - *The mining activities impact on the vegetal associations in surrounding of Baia Mare town (Maramures county)* 17th International Workshop "European Vegetation Survey" Brno, Czech Republic, 1-4 May 2008
- 3.4.12.** L. Mihaly Cozmuta, C. Varga, A. Mihaly Cozmuta, 2007 - *Recovery of copper ions from acid mine wastewaters using ionic exchange method*, CAPACITY BUILDING ON THE ECOMINING PRINCIPLE, International Seminar, Ecomining –Europe in 21th Century – the 2nd edition, 24-26 Octombrie, Sovata Praid, 2007, 413-423.
- 3.4.13.** L. Mihaly Cozmuta, C. Varga, M. Marian, A. Mihaly Cozmuta, 2007 - *Physical and chemical stability assessment of tailings ponds*, CAPACITY BUILDING ON THE ECOMINING PRINCIPLE, International Seminar Ecomining –Europe in 21th Century – the 2nd edition, 24-26 Octombrie, Sovata &Praid, 2007, 152-161.
- 3.4.14.** A. Mihaly Cozmuta, L. Mihaly Cozmuta, C. Varga, 2007 - *Pollution risk assessment in non-ferrous ores processing technologies. I. Disposal of wastewaters*, 1st International work shop Optoelectronic Techniques for Environmental Monitoring and Risk Assessment, 21-24 Mai, Bucuresti, 145-151
- 3.4.15.** L. Mihaly Cozmuta, A. Mihaly Cozmuta, C. Varga, 2007- *Risk elements in designing and exploitation of tailings ponds*, 1st International work shop Optoelectronic Techniques for Environmental Monitoring and Risk Assessment, 21-24 Mai, Bucuresti, 152-162
- 3.4.16.** A. Mihaly Cozmuta, L. Mihaly Cozmuta, C. Varga, I. Bud, I. Denut, 2007 - *Environment pollution with heavy metals caused by the tailings ponds' failures*, International work shop Heavy metals in the environment and the wellbeing of human and animals, Bucuresti 20 – 21 aprilie, (CD)
- 3.4.17.** Vasile Viman, Anca Mihaly-Cozmuta, Gheorghe Vatca, Leonard Mihaly Cozmuta, 2007-Cozmuta, Vasile Anitas - *Analysis of Soil's Pollutant Heavy Metals*, PITTCON Conference, 25.02.-2.03.2007, Chicago USA, 2320, CD
- 3.4.18.** A. Mihaly Cozmuta, L. Mihaly Cozmuta, V. Viman, C. Varga, 2006 – *The influence of accidental spills on quality of soils. Mathematical modelling of pollutant's distribution*, International Conference of Physical Chemistry ROMPHYSICHEM -12, 6-8 Septembrie, Bucuresti, pag. 219
- 3.4.19.** A. Mihaly Cozmuta, L. Mihaly Cozmuta, V. Viman, C. Varga, I. Frind, 2006 – *Assesment of pollutant impact of tailing ponds on soil. Case study: cyanide dispersion*, 1st International Summer School Optoelectronic Techniques for Environmental Monitoring and Risk Assessment, 31.07-09.08. 2006, Baia Mare, p.229-236.
- 3.4.20.** L. Mihaly Cozmuta, A. Mihaly Cozmuta, V. Viman, C. Varga. C. Cotea, 2006 – *The study of environment pollution with heavy metals. Case study: contamination of soil with lead*, 1st International Summer School Optoelectronic Techniques for Environmental Monitoring and Risk Assessment, 31 Julie-09. August 2006, Baia Mare, p. 221-227, ISBN 973-85818-8-5, 978-97-85818-8-3

3.4.21. V. Viman, A. Mihaly Cozmuta, Gh. Vatca, L. Mihaly Cozmuta, 2004 – *The pollution of soils with heavy metals*, the 20th Annual International Conference on Soils, Sediments and Water, October 18-21, University of Massachusetts at Amherst, ISSN: 0038-0717

3.5. PUBLICATII IN REVISTE ALE UNOR ASOCIATII PROFESIONALE

3.6.1. Anca Mihaly Cozmuta, **Leonard Mihaly Cozmuta**, Camelia Varga, Monica Marian, Anca Peter, Effect of thermal processing on quality of polyfloral honey, Romanian Journal of Food Science, 2011 , nr. 1, vol. 1, pag: 45-53- Jurnalul Oficial al Asociatiei Specialistilor din Industria Alimentara din Romania

4. PROIECTE DE CERCETARE

4.1. PROIECTE NATIONALE

4.1.1. Titlul proiectului: *Reabilitarea iazurilor de decantare prin aplicare de amendamente si cultivarea unor specii vegetale cu adaptabilitate ridicata la continutul de metale grele - RIVAM*

Coordonator consortiu: sef lucrari dr. **Leonard Mihaly Cozmuta**- Universitatea de Nord Baia Mare

Membri: conf.dr. Camelia Varga, prof.dr. Anca Mihaly Cozmuta, sef lucrari dr. Monica Marian, sef lucrari drd. Anca Peter, etc.

Durata: 2008-2011

Sursa de finantare: CNMP in cadrul PNCDI 2

Parteneri: Universitatea de Nord Baia Mare, Universitatea din Oradea, Statiunea de Cercetari Agricole Livada Satu Mare

Buget: 1.900.000 RON

4.1.2. Titlul proiectului: *Bioacumularea metalelor grele in lantul sol-legume-om - BIOMEG*

Coordonator consortiu: Conf.dr. Camelia Varga - Universitatea de Nord Baia Mare

Membri: sef lucrari dr. **Leonard Mihaly Cozmuta (responsabil stiintific)**, prof.dr. Anca Mihaly Cozmuta, sef lucrari dr. Monica Marian, sef lucrari drd. Anca Peter, etc.

Durata: 2008-2011

Sursa de finantare: CNMP in cadrul PNCDI 2

Parteneri: Universitatea de Nord Baia Mare, Universitatea din Oradea, Statiunea de Cercetari Agricole Livada Satu Mare, Facultatea de Medicina Universitatea Transilvania Brasov

Buget: 1.900.000 RON

4.1.3. Titlul proiectului: *Identificare solutiilor tehnice de reducere a impactului de poluare a componentelor de mediu (sol, apa) generat de apele de mina/deșeuri cu conținut de metale grele*, Contract nr. 12.09.2007, perioada 2007 – 2008

Director proiect UBM: Conf.dr. Denuț Ioan

Membri: sef lucrari dr. **Leonard Mihaly Cozmuta**, conf.dr. Dorina Baciu, prof.dr. Bud Ionica, prof. dr. Anca Mihaly Cozmuta,

Durata: 2007-2008

Finanțator: Ministerul Economiei și Finanțelor - Plan sectorial.

Parteneri: INCD-ECOIND București, ICD-CEPROMIN Deva, Universitatea de Nord din Baia Mare, SC ICPM SA Baia Mare, INCD-IMNR București, Universitatea din Petroșani.

Buget: 35.000 RON pentru UBM

4.1.4. Titlul proiectului: *Monitorizarea actiunii microbiotei solului in vederea utilizarii ei in reabilitarea ecologica a iazurilor de decantare-AMSREI*

Coordonator consortiu: sef lucrari dr. Monica Marian – Universitatea de Nord Baia Mare

Membri: sef lucrari **dr. Leonard Mihaly Cozmuta**, conf.dr. Camelia Varga, prof.dr.Anca Mihaly Cozmuta, sef lucrari drd. Anca Peter,etc.

Durata: 2007-2010

Sursa de finantare: CNMP in cadrul PNCDI 2

Parteneri: Universitatea de Nord Baia Mare, Universitatea din Oradea, Statiunea de Cercetari Agricole Livada Satu Mare

Buget: 1.600.000 RON

4.1.5. Titlul proiectului: *Aplicarea integrata a bazelor de date pentru adoptarea si restructurarea factorilor naturali si artificiali de protectie a mediului in Ferme Zootehnice-AIBD*

Director de proiect UBM: prof.dr.ing. Anca Mihaly Cozmuta

Membri: sef lucrari **dr. Leonard Mihaly Cozmuta**, conf.dr. Camelia Varga, etc.

Durata: 2005-2008

Sursa de finantare: Ministerul Educatiei si Cercetarii prin Programul Cercetare de Excelenta - CALIST

Parteneri: USAMV Cluj Napoca, Universitatea de Nord Baia Mare – Romania, Universitatea Gent Belgia, Academia de Stiinte Republica Moldova – Institutul de Zoologie

Buget: 100.000 RON pentru UBM

4.1.6. Titlul proiectului:*Elaborarea hartilor de hazard si evaluarea calitatii mediului in arealele miniere din judetele Maramures si Satu Mare utilizand sistemele informationale geografice - SIG*

Director de proiect UBM: prof.dr. Anca Mihaly Cozmuta

Membri: **Leonard Mihaly Cozmuta (responsabil stiintific)**

Anul: 2005-2008

Sursa de finantare: CNCSIS

Parteneri: Institutul de Geografie al Academiei Romane, Institutul de Instrumentatie Analitica Cluj Napoca, Geoproiect Bucuresti, Universitatea de Nord Baia Mare, FSM Cluj Napoca

Buget: 190.000 RON pentru UBM

4.1.7. Titlul proiectului: *Conexiuni la Cercetarea Europeana de Excelenta in Problematika de Mediu - CONEEX*

Coordonator consortiu: prof.dr. Vasile Viman – Universitatea de Nord Baia Mare

Membri: sef lucrari **dr. Leonard Mihaly Cozmuta (responsabil stiintific)**, conf.dr. Camelia Varga, prof.dr. Anca Mihaly Cozmuta, sef lucrari drd. Anca Peter,etc.

Durata: 2005-2007

Sursa de finantare: CNCSIS

Parteneri: Universitatea de Nord Baia Mare – Romania, Institutul Național de Optoelectronică – INOE București, Institutul de Instrumentație Analitică -ICIA-CENTI Cluj Napoca

Buget: 100.000 RON pentru UBM

4.1.8. Titlul proiectului: *Posibilitati de reducere a impactului poluant al factorilor de mediu (apa, sol) produs de apele de mina/deseuri 14/206325/01.07.2005*

Director proiect UBM: Conf.dr.ing. Ioan Denut

Membri: sef lucrari dr. Leonard Mihaly Cozmuta, conf.dr. Dorina Baci, prof.dr. Anca Mihaly Cozmuta, prof.dr. Ioan Bud, conf.dr. Simona Duma, etc.

Durata: 2005-2006

Sursa de finantare: CNCSIS

Parteneri: Universitatea de Nord Baia Mare, INCD-ECOIND Bucuresti, ICD-CEPROMIN Deva, EVALPROTECTSRL Baia Mare, INCD-IMNR Bucuresti, INCD-ICIM Bucuresti

4.2. PROIECTE DE CERCETARE INTERNAȚIONALE

4.2.1. Titlu : Smart functions of packages containing nano-structured materials in food preservation – SMARTPACK

Coordonator: Lecturer dr. Anca Peter, UTC-N CUNBM-Romania

Membri: Leonard Mihaly Cozmuta, Anca Mihaly Cozmuta, Camelia Nicula

Durata: 2012-2015

Sursa de finantare: MNT-ERANET Program

Parteneri: ICA-Bucuresti-Romania, Universitatea Babes Bolyai Cluj Napoca-Romania, SC Somes Dej-Romania, Warsaw University – Poland

4.2.2. Titlul proiectului: *Developing of a biophysical system based on zeolites-microorganisms-vegetal species for ecoremediation of tailing ponds coming from gold-silver preparation industry - ZEMIP*

Coordonator consorțiu: sef lucrari dr.ing. Leonard Mihaly Cozmuta-UBM

Membri: conf.dr. Camelia Varga, sef lucrari dr. Monica Marian, sef lucrari dr. Liviu Giurgiulescu, prof.dr. ing. Anca Mihaly Cozmuta

Durata: 2009-2011

Sursa de finantare: CNMP – proiecte bilaterale in cadrul PNCDI 2

Parteneri: Universitatea de Nord Baia Mare -Romania, Universitatea Johhanesburg -Africa de Sud

Buget: 311.079 RON

4.2.3. Titlul proiectului: *CII-HU-0010-03-0809 - Teaching and Learning Bioanalysis*

Director de proiect UBM: prof.dr.ing. Anca Mihaly Cozmuta

Membri: sef lucrari dr. Leonard Mihaly Cozmuta, conf.dr. Camelia Varga, sef lucrari dr. Monica Marian, sef lucrari dr. Liviu Giurgiulescu, sef lucrari dr. Anca Peter

Durata: 2009-2010

Sursa de finantare: Uniunea Europeană în cadrul CEEPUS (Central European Exchange Program for Universities Study, CII-HU-0010-03-0809)

Parteneri: University of Pécs-Ungaria (coordonator consorțiu), Universitatea de Nord Baia Mare -Romania, Graz University of Technology-Poland, Neophit Rilski South-West University-Bulgaria, Sofia University St.Kliment Ohridski-Bulgaria, University of Zagreb-Croatia, Charles University in Prague-Cehia, Palacký University, Olomouc-Cehia, Eötvös Loránd University – Ungaria, University of Debrecen-Ungaria, University Sts.Cyril and Methodius – Skopje-Macedonia, Warsaw University-Polonia, Universitatea babes Bolyai Cluj Napoca,Universitatea de Medicina si Farmacie Targu Mures -Romania, University in Prishtina with temporary seat in Kosovska Mitrovica, Comenius University in Bratislava-Slovakia, Constantine The Philosopher University in Nitra-Slovakia

4.2.4. Titlul proiectului: *ARGO training placement under the lifelong learning programme*

Director de proiect UBM: prof.dr.ing. Anca Mihaly Cozmuta

Membri: sef lucrari dr. **Leonard Mihaly Cozmuta**, conf.dr. Camelia Varga, sef lucrari dr. Monica Marian, etc.

Durata: 2008-2009

Sursa de finantare: Uniunea Europeana in cadrul Programului Leonardo da Vinci

Parteneri: Universitatea de Nord Baia Mare-Romania, Fundacia para el Fomento en Asturias de la Investigación Aplicada y la Tecnología (FICYT)- Madrid - Spania

4.2.5. Titlul proiectului: *Education in separation and identification of organic xenobiotics in environmental samples and food product*

Director proiect UBM: sef lucrari dr.ing. **Leonard Mihaly Cozmuta**

Membri: conf.dr. Camelia Varga, sef lucrari dr. Monica Marian, sef lucrari dr. Liviu Giurgiulescu, prof.dr. Anca Mihaly Cozmuta

Durata: 2008-2009

Sursa de finantare: Uniunea Europeană în cadrul CEEPUS (Central European Exchange Program for Universities Study, CEEPUS II-PL – 0401-2007-2008 in the field of Analytical Chemistry Applied to Environment Monitoring and Protection)

Parteneri: Nicolaus Copernicus University – Torun, Poland (coordinator retea), Universitatea de Nord Baia Mare -Romania, University Pardubice-Czech Republic, Slovak University Technology – Slovak Republic, Technical University of Graz- Austria, University of Pecs – Hungary, Agricultural University Wroclaw – Poland, Medical University of Gdansk – Poland, Comenius University of Bratislava – Slovakia, University of Ljubljana – Slovenia, University of Sofia – Bulgaria, University of Zagreb-Croatia.

4.2.6. Titlul proiectului: *Education in separation and identification of organic xenobiotics in environmental samples and food product*

Director proiect UBM: prof.dr.ing. Anca Mihaly Cozmuta

Membri: sef lucrari dr. **Leonard Mihaly Cozmuta**, conf.dr. Camelia Varga

Anul: 2007-2008

Sursa de finantare: Uniunea Europeană în cadrul CEEPUS (Central European Exchange Program for Universities Study, CEEPUS II-PL – 0401-2007-2008 in the field of Analytical Chemistry Applied to Environment Monitoring and Protection)

Parteneri: Universitatea de Nord Baia Mare -Romania, University Pardubice-Czech Republic, Slovak University Technology – Slovak Republic, Technical University of Graz- Austria, University of Pecs – Hungary, Agricultural University Wroclaw – Poland, Medical University of Gdansk – Poland, Comenius University of Bratislava – Slovakia, University of Ljubljana – Slovenia, University of Sofia – Bulgaria, University of Zagreb-Croatia, Nicolaus Copernicus University – Torun, Poland

4.2.7. Titlul proiectului: *Education in separation and identification of organic xenobiotics in environmental samples and food product*

Director proiect UBM: prof.dr.ing. Anca Mihaly Cozmuta

Membri: sef lucrari dr. **Leonard Mihaly Cozmuta**, conf.dr. Camelia Varga

Anul: 2006-2007

Sursa de finantare: Uniunea Europeană în cadrul CEEPUS (Central European Exchange Program for Universities Study, CEEPUS II-PL – 0401-2007-2008 in the field of Analytical Chemistry Applied to Environment Monitoring and Protection)

Parteneri: Universitatea de Nord Baia Mare -Romania, University Pardubice-Czech Republic, Slovak University Technology – Slovak Republic, Technical University of Graz- Austria, University of Pecs –

Hungary, Agricultural University Wroclaw – Poland, Medical University of Gdansk – Poland, Comenius University of Bratislava – Slovakia, University of Ljubljana – Slovenia, University of Sofia – Bulgaria, University of Zagreb-Croatia, Nicolaus Copernicus University – Torun, Poland

4.2.8. Titlul proiectului: *Education in separation and identification of organic xenobiotics in environmental samples and food product*

Director proiect UBM: prof.dr.ing. Anca Mihaly Cozmuta

Membri: sef lucrari dr. **Leonard Mihaly Cozmuta**, conf.dr. Camelia Varga

Anul: 2005-2006

Sursa de finantare: Uniunea Europeană în cadrul CEEPUS (Central European Exchange Program for Universities Study, CEEPUS II-PL – 0401-2007-2008 in the field of Analytical Chemistry Applied to Environment Monitoring and Protection)

Parteneri: Universitatea de Nord Baia Mare -Romania, University Pardubice-Czech Republic, Slovak University Technology – Slovak Republic, Technical University of Graz- Austria, University of Pecs – Hungary, Agricultural University Wroclaw – Poland, Medical University of Gdansk – Poland, Comenius University of Bratislava – Slovakia, University of Ljubljana – Slovenia, University of Sofia – Bulgaria, University of Zagreb-Croatia, Nicolaus Copernicus University – Torun, Poland

4.2.9. Titlul proiectului: *Investigation of the Risk of Cyanide in Gold Leaching on Health an Environment in Central Asia and Central Europe, IRCYL, ICA 2- CT- 2000- 10065.*

Director de proiect UBM: prof.dr. **Viman Vasile**

Membri: sef lucrari dr. **Leonard Mihaly Cozmuta (responsabil stiintific)**, prof.dr. Anca Mihaly Cozmuta, conf.dr. Gheorghe Vatca

Durata: 2000-2004

Sursa de finantare: UE cadrul in FP 5

Parteneri: IC Consultants Ltd Uk (coordonator consortiu), Universitatea de Nord Baia Mare – Romania, Medical Institute for Environmental Hygiene Germany; InfoMine Rusia; Kyrgyz Research Institute of Oncology and Radiology Kyrgyzstan; Kyrgyz Scientific Center of Haematology Kyrgyzstan; Institute for Regional Studies Kyrgyzstan; Pshysico- Chemical Methods Analysis Center Almaty Kazakhstan; University Babes Bolyai Cluj Napoca Romania; Institute of Public Hygiene Cluj Napoca Romania; Institute of Analytical Instrumentation and Environmental Analyses Cluj Napoca Romania; Mining Consortium Research and Companies Deva Romania.

Buget: 100.000 euro pentru UBM

4.3. CONTRACTE CU MEDIUL ECONOMIC

Titlu: **Analiza si caracterizarea fizico-chimica a unor probe lichide si solide -DAC, 39./16.05.2012-2014**

Coordonator: Conf.dr. ing. Leonard Mihaly Cozmuta

Membri: prof.dr. Anca Mihaly Cozmuta, sef lucrari dr. Anca Peter, conf.dr. Camelia Nicula

Parteneri: Centrul de Cercetare Stiintifica Pentru Siguranta Mediului, Alimentelor Si Sanatatii –Grupul de Analize Fizico-Chimice-CCESMAS-Centrul Universitar Nord din Baia Mare, Centrul National Pentru Incercarea si Expertizarea Produselor – LAREX Bucuresti.

5. MOBILITATI ALE CADRELOR DIDACTICE SI STUDENTILOR

I. Plecari de la CUNBM

Leonard Mihaly Cozmuta (invited professor)

1.Universitatea din Pardubice- Czech Republic	12-21.07.2011
2.Universitatea Sts. Cyril and Methodius-Skopje, Macedonia	10-17.05.2011
3. Universitatea Wits din Johannesburg, Facultatea de Chimie, Africa de Sud	1-30.08. 2011
4. Universitatea din Pardubice, Czech Republic	15-18.11.2010
5. Universitatea din Viena, Austria	02-08.05.2010
6.Universitatea Wits din Johannesburg, Facultatea de Chimie, Africa de Sud	09-15.05.2009
7.Facultatea de Chimie, Sofia University, Bulgaria,	04.2009
8 Stagiu de cercetare Polonia – Universitatea Nicolaus Copernicus, Torun, Facultatea de Chimie, Departamentul de Chimia Mediului – Domeniul; Educatie in separarea si identificarea xenobioticelor organice in probele de mediu si produse alimentare, 01.05.2008-31.07.2008	
9 Stagiu de cercetare Polonia – Universitatea Nicolaus Copernicus, Torun, Facultatea de Chimie, Departamentul de Chimia Mediului – Domeniul; Educatie in separarea si identificarea xenobioticelor organice in probele de mediu si produse alimentare, 05.03.2007-05.06.2007	

Campan Liana Chimie II

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II. Sosiri la CUNBM

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Universitatea Wits din Johannesburg, Facultatea de Chimie, Africa de Sud	12-24.12.2010
Universitatea Wits din Johannesburg, Facultatea de Chimie, Africa de Sud	1-15.07.2009

6. EXPERT/EVALUATOR

6.1. Expert ARACIS-CHIMIE

http://pfe.aracis.ro/inscriere/registru/lista_c_d/1/3/

6.2. Evaluator of National Research Foundation – SEE-ERA.NET Pilot Joint Call-2007

6.3. Evaluator of EU for Marie Curie Fellowships (FP6) - 2005/2006; code EX2002B079827

6.4. Evaluator of EU for INTAS Program (FP 6) – 2005/2006, 2006/2007; code 5424

7. EDITOR/REFERENT STIINTIFIC

7.1. Referent teza de master: Mandla Ralph Repinga - Investigation of the impact of recharge water with respect to quality into the khutala Colliery rehabilitated block 1 opencast operation, Faculty of Science, Universitatea Witwaterands, Johhanesburg, Africa de Sud, 06.09.2011

7.2. Journal of Environmental Management (<http://portal.isiknowledge.com/>)

7.3. Journal of Agricultural Science and Technology (<http://portal.isiknowledge.com/>)

7.4. Chemical Engineering Journal (<http://portal.isiknowledge.com/>)

7.5. Analele Universitatii din Oradea –Seria Biologie

<http://www.bioresearch.ro/revistaen.html>)

7.6. Editor executiv: Carpathian Journal of Food Science and Technology, coordonata de *Centrul de Cercetare Stiintifica pentru Siguranta Mediului, Alimentelor si Sanatatii- CCESMAS* din cadrul Catedrei de Chimie-Biologie http://chimie-biologie.ubm.ro/carpathian_journal/index.html

8. ARTICOLE CITATE (<http://www.scopus.com/>)

Articolul citat	Articolul in care s-a citat
Mihaly-Cozmuta L, Mihaly-Cozmuta A, Peter A, Nicula C, Tutu H, Silipas D, Indrea E. Adsorption of heavy metal cations by Na-clinoptilolite: equilibrium and selectivity studies. J Environ Manage, 2014, 137:69–80	Yuan Yuan Ge, Xuemin Cui, Yan Kong, Zhili Li, Yan He, Qianqian Zhou. Porous geopolymeric spheres for removal of Cu(II) from aqueous solution: Synthesis and evaluation. Journal of Hazardous Materials 283 (2015) 244–251.
	Manasi, Vidya Rajesh, N. Rajesh. Adsorption isotherms, kinetics and thermodynamic studies towards understanding the interaction between a microbe immobilized polysaccharide matrix and lead. Chemical Engineering Journal, 248, 15 July 2014, 342–351
	Afrodita Zendelska, Mirjana Golomeova. Effect of competing cations (Cu, Zn, Mn, Pb) adsorbed by natural zeolite. Date of publication: July 17, 2014. Issn: 2348-4098, Volume 02 issue 05 June 2014
	Marija T. Mihajlovic', Slavica S. Lazarevic', Ivona M. Jankovic'-Castvan, Janez Kovac', Bojan M. Jokic', Djordje T. Janackovic', Rada D. Petrovic. Kinetics, thermodynamics, and structural investigations on the removal of Pb ²⁺ , Cd ²⁺ , and Zn ²⁺ from multicomponent solutions

	onto natural and Fe(III)-modified zeolites. Clean Techn Environ Policy. DOI 10.1007/s10098-014-0794-8
E.N. Bakatula, E.M. Cukrowska, I.M. Weiersbye, L. Mihaly-Cozmuta, A. Peter, H. Tutu . Biosorption of trace elements from aqueous systems in gold mining sites by the filamentous green algae (<i>Oedogonium</i> sp.). Journal of Geochemical Exploration, Volume 144, Part C, 2014, pp. 492-503	Joel T. Kidgell, Rocky de Nys, Nicholas A. Paul, David A. Roberts. The Sequential Application of Macroalgal Biosorbents for the Bioremediation of a Complex Industrial Effluent, Published: July 25, 2014, DOI: 10.1371/journal.pone.0101309, PLoS ON, www.ploson
Peter, Anca; Mihaly-Cozmuta, Leonard; Mihaly-Cozmuta, Anca; Nicula, Camelia; Indrea, Emil; Tutu, Hlanganani . Calcium- and ammonium ion-modification of zeolite amendments affects the metal-uptake of <i>Hieracium piloselloides</i> in a dose-dependent way, JOURNAL OF ENVIRONMENTAL MONITORING, 14(10), pp.2807-2814, DOI: 10.1039/c2em30301a, 2012, ISSN: 1464-0325	Damian, Floarea; Damian, Gheorghe; Lacatusu, Radu; Postolache, Carmen; Iepure, Gheorghe; Jelea, Marian; Nasui, Daniel. The heavy metals immobilization in polluted soils from Romania by the natural zeolites use. CARPATHIAN JOURNAL OF EARTH AND ENVIRONMENTAL SCIENCES, 8(4), pp.231-250, 2013, ISSN: 1842-4090, ISN: 1844-489X
Peter, Anca; Nicula, Camelia; Mihaly-Cozmuta, Anca; Mihaly-Cozmuta, Leonard; Indrea, Emil. Chemical and sensory changes of different dairy products during storage in packages containing nanocrystallised TiO ₂ . INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY, 47(7), pp.1448-1456, DOI: 10.1111/j.1365-2621.2012.02992.x, 2012, ISSN: 0950-5423	Ziemkowska, Wanda; Basiak, Dariusz; Kurtycz, Patrycja; Jastrzebska, Agnieszka; Olszyna, Andrzej; Kunicki, Antoni. Nano-titanium oxide doped with gold, silver, and palladium - synthesis and structural characterization. CHEMICAL PAPERS, 68(7), pp. 959-968, DOI: 10.2478/s11696-014-0537-7, 2014. ISSN: 0366-6352, eISSN: 1336-9075
	Ouzounidou, Georgia; Papadopoulou, Kalliope K.; Asfi, Maria; Mirtziou, Ioanna; Gaitis, Fragiskos. Efficacy of different chemicals on shelf life extension of parsley stored at two temperatures. INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY, 48(8), pp. 1610-1617, DOI: 10.1111/ijfs.12131, 2013, ISSN: 0950-5423
	de Azeredo, Henriette M. C.. Antimicrobial nanostructures in food packaging. TRENDS IN FOOD SCIENCE & TECHNOLOGY, 30(1), pp.56-69, DOI: 10.1016/j.tifs.2012.11.006, 2013, ISSN: 0924-2244
	Christoforidis, Konstantinos C.; Kubacka, Anna; Ferrer, Manuel; Cerrada, Maria L.; Fernandez-Garcia, Marta ; Fernandez-Garcia, Marcos. Role of TiO ₂ morphological characteristics in EVOH-TiO ₂ nanocomposite films: self-degradation and self-cleaning properties. RSC ADVANCES, 3(22), pp. 8541-8550, DOI: 10.1039/c3ra23271a, 2013, ISSN: 2046-2069
Marian, Monica; Peter, Anca; Mihaly-Cozmuta, Leonard; Bakatula, Elysee . Increased survival chances of the species <i>quercus petraea</i> in terms of pollution with cd and cu by using microbiota-bentonite systems. CARPATHIAN JOURNAL OF EARTH AND ENVIRONMENTAL SCIENCES, 7(1), pp. 231-237, 2012, ISSN: 1842-4090	Stefan, Marius; Munteanu, Neculai; Stoleru, Vasile; Mihasan, Marius; Hritcu, Lucian. Seed inoculation with plant growth promoting rhizobacteria enhances photosynthesis and yield of runner bean (<i>Phaseolus coccineus</i> L.). SCIENTIA HORTICULTURAE, 151, pp. 22-29, DOI: 10.1016/j.scienta.2012.12.006, 2013, ISSN: 0304-4238
Cozmuta, Anca Mihaly; Bretan, Laura; Cozmuta, Leonard Mihaly; Nicula, Camelia; Peter, Anca' Lead traceability along soil-melliferous flora-bee family-apiary products chain, JOURNAL OF ENVIRONMENTAL MONITORING, 14(6), pp. 1622-1630, DOI: 10.1039/c2em30084b, 2012, ISSN: 1464-0325	Losfeld, Guillaume; Saunier, Jean-Baptiste; Grison, Claude. Minor and trace-elements in apiary products from a historical mining district (Les Malines, France). FOOD CHEMISTRY, 146, pp. 455-459, DOI: 10.1016/j.foodchem.2013.08.105, 2014, ISSN: 0308-8146, eISSN: 1873-7072
	Pereira, Olivia R.; Domingues, Maria R. M; Silva, Artur M. S.; Cardoso, Susana M.. Phenolic constituents of <i>Lamium album</i> : Focus on isoscutellarein derivatives. FOOD RESEARCH INTERNATIONAL, 48(1), pp. 330-335, DOI: 10.1016/j.foodres.2012.04.009, 2012, ISSN: 0963-9969
Cozmuta, L. Mihaly; Cozmuta, A. Mihaly; Peter, A.; Nicula, C.; Nsimba, E. Bakatula; Tutu, H. The influence of pH on the adsorption of lead by Na-clinoptilolite: Kinetic and equilibrium studies, WATER SA, 38(2), pp.	Manasi; Rajesh, Vidya; Rajesh, N. Adsorption isotherms, kinetics and thermodynamic studies towards understanding the interaction between a microbe immobilized polysaccharide matrix and lead. CHEMICAL ENGINEERING JOURNAL , 248, pp. 342-351, DOI: 10.1016/j.cej.2014.03.022, 2014. ISSN: 1385-8947, eISSN: 1873-3212

<p>269-278, DOI: 10.4314/wsa.v38i2.13, 2012 , ISSN: 0378-4738</p>	<p>Peter, Anca; Mihaly-Cozmuta, Leonard; Mihaly-Cozmuta, Anca; Nicula, Camelia ; Tudoran, Lucian Barbu; Vulpoi, Adriana; Baia, Lucian. Photocatalytic Efficiency of Zeolite-Based TiO₂ Composites for Reduction of Cu(II): Kinetic Models. INTERNATIONAL JOURNAL OF APPLIED CERAMIC TECHNOLOGY, 11(3), pp. 568-581, SI, DOI: 10.1111/ijac.12046, 2014, ISSN: 1546-542X, eISSN: 1744-7402</p> <p>Maszkowska, J., Stolte, S., Kumirska, J., Łukaszewicz, P., Mioduszevska, K., Puckowski, A., Caban, M., Wagil, M., Stepnowski, P., Białk-Bielin´ska, A. Beta-blockers in the environment: Part I. Mobility and hydrolysis study. Science of the Total Environment, 493, issue , year 2014, pp. 1112 – 1121; doi: 10.1016/j.scitotenv.2014.06.023.</p> <p>Mihaly-Cozmuta, L., Mihaly-Cozmuta, A., Peter, A., (...), Silipas, D., Indrea, E. Document Adsorption of heavy metal cations by Na-clinoptilolite: Equilibrium and selectivity studies, Journal of Environmental Management, 137, pp. 69-80, 2014</p> <p>Tutu, H.; Bakatula, E.; Dlamini, S.; Rosenberg, E.; Kailasam, V.; Cukrowska, E. M.. Kinetic, equilibrium and thermodynamic modelling of the sorption of metals from aqueous solution by a silica polyamine composite, WATER SA, 39(4), pp. 437-443, DOI: 10.4314/wsa.v39i4.1, 2013, ISSN: 0378-4738</p> <p>Pakade, Vusumzi; Chimuka, Luke. Polymeric sorbents for removal of Cr(VI) from environmental samples PURE AND APPLIED CHEMISTRY, 85(12), pp. 2145-2160, DOI: 10.1351/PAC-CON-12-11-17, 2013, ISSN: 0033-4545</p> <p>Peter, Anca; Mihaly-Cozmuta, Leonard; Mihaly-Cozmuta, Anca; Nicula, Camelia; Indrea, Emil; Tutu, Hlanganani. Calcium- and ammonium ion-modification of zeolite amendments affects the metal-uptake of Hieracium piloselloides in a dose-dependent way. JOURNAL OF ENVIRONMENTAL MONITORING, 14(10), pp. 2807-2814, DOI: 10.1039/c2em30301a, 2012, ISSN: 1464-0325</p>
<p>Sprynskyy, Myroslav; Kowalkowski, Tomasz; Tutu, Hlanganani; Cozmuta, Leonard Mihaly; Cukrowska, Ewa M.; Buszewski, Boguslaw. The Adsorption Properties of Agricultural and Forest Soils Towards Heavy Metal Ions (Ni, Cu, Zn, and Cd). SOIL & SEDIMENT CONTAMINATION, 20(1), pp. 12-29, DOI: 10.1080/15320383.2011.528467, 2011, ISSN: 1532-0383</p>	<p>Zhao, XiuLan; Jiang, Tao; Du, Bin. Effect of organic matter and calcium carbonate on behaviors of cadmium adsorption-desorption on/from purple paddy soils, CHEMOSPHERE. CHEMOSPHERE, 99, pp. 41-48, DOI: 10.1016/j.chemosphere.2013.09.030, 2014. ISSN: 0045-6535, eISSN: 1879-1298</p>
<p>Kowalkowski, Tomasz; Tutu, Hlanganani; Cozmuta, Leonard Mihaly; Sprynskyy, Mirosław; Cukrowska, Ewa M.; Buszewski, Bogusaw . Assessment of mobility of heavy metals in two soil types by use of column leaching experiments and chemometric evaluation of elution curves. INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, 90(10), pp. 797-811, DOI: 10.1080/03067310903195003, 2010, ISSN: 0306-7319</p>	<p>Nimirciag, R. Balint; Buratto, E.; Ajmone-Marsan, F. Leaching of Trace Metals from Soil under Alternating Oxidic-anoxic Conditions: a Column Study. PROCEEDINGS OF THE 16TH INTERNATIONAL CONFERENCE ON HEAVY METALS IN THE ENVIRONMENT, Book Series: E3S Web of Conferences, 1, Article Number: 19005, DOI: 10.1051/e3sconf/20130119005, 2013, Conference: 16th International Conference on Heavy Metals in the Environment (ICHMET), Rome, ITALY, Date: SEP 23-27, 2012</p> <p>Rosal, A.; Chica, A. F.; Arcos, M. A.; Dios, M. Use of organic acids in the composting of municipal solid waste: a pilot-scale study. ENVIRONMENTAL TECHNOLOGY, 33(18), pp. 2149-2158, DOI: 10.1080/09593330.2012.660653, 2012, ISSN: 0959-3330</p> <p>Peter, A., Mihaly-Cozmuta, L., Mihaly-Cozmuta, A., (...), Indrea, E., Tutu, H. Calcium- and ammonium ion-modification of zeolite amendments affects the metal-uptake of Hieracium piloselloides in a dose-dependent way. Journal of Environmental Monitoring 14 (10), pp. 2807-2814</p>
<p>Oros, Vasile; Coman, Mirela; Marian, Monica; Mihaly, Leonard G.; Mihaly, Anca. Preliminary investigation aimed to ecological reclaiming by</p>	<p>Xu, Defu; Li, Yingxue; Xu, Xianghua; Zhao, Xiaoli; Fang, Hua. Effect of microbial activity in the rhizosphere of wetland plants on removal of total organic carbon and nitrogen from wastewater. ENVIRONMENTAL</p>

<p>phytoremediation of a large flotation tailing dump in Baia Mare mining area. Environmental Engineering and Management Journal, 8(4), pp. 915-922, 2009, ISSN: 1582-9596</p>	<p>ENGINEERING AND MANAGEMENT JOURNAL, 10(6), pp. 781-786, 2011</p>
	<p>Modoi, Oana-Cristina; Vlad, Serban-Nicolae; Stezar, Ileana-Codruta; Manciu, Dorin; Gagi, Andra Cristina; Marginean, Sanda. Integrated tailing dams management in BAI A MARE AREA, ROMANIA. ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL. 10(1), pp.43-51, 2011</p>
	<p>Senila, Marin; Levei, Erika; Miclean, Mirela; Senila, Lacrimioara; Stefanescu, Lucrina; Marginean, Sanda; Ozunu, Alexandru; Roman, Cecilia. Influence of pollution level on heavy metals mobility in soil from NW ROMANIA. ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, 10(1), pp. 59-64, 2011</p>
<p>Cozmuta, Leonard Mihaly; Varga, Camelia; Marian, Monica; Cozmuta, Anca Mihaly; Hlanganani, Tutu . Applying artificial neural networks in the modelling of copper recovery process by ionic exchange in aqueous solutions. REVISTA DE CHIMIE, 59(7), pp. 766-772, 2008, ISSN: 0034-7752</p>	<p>Stefan, Daniela Simina; Meghea, Irina. Mechanism of simultaneous removal of Ca²⁺, Ni²⁺, Pb²⁺ and Al³⁺ ions from aqueous solutions using Purolite((R)) S930 ion exchange resin. COMPTES RENDUS CHIMIE, 17(5), pp. 496-502, DOI: 10.1016/j.crci.2013.09.010, 2014, ISSN: 1631-0748 , SSN: 1878-1543</p>
	<p>Pindaru, Diana Mihaela; Tanase, Catalin; Olariu, Romeo Iulian; Arsene, Cecilia, Chemical Composition and Ions Concentration in Xanthoria parietina and Phaeophyscia orbicularis Lichenised Fungi Species from Iasi, North-Eastern Romania, REVISTA DE CHIMIE, 64(8), pp.8-814, 2013, ISSN: 0034-7752</p>
<p>Cozmuta, Anca Mihaly; Cozmuta, Leonard Mihaly; Varga, Camelia . Copper electrochemical recovery from wastewaters using graphite volumic cathode, REVISTA DE CHIMIE, 58(12), pp. 1232-1238, 2007, ISSN: 0034-7752</p>	<p>Caprarescu, Simona; Vaireanu, Danut-Ionel, Cojocaru, Anca; Maior, Ioana ; Sarbu, Andrei, Removal of Copper Ions from Electroplating Wastewater by Ion-exchange Membranes, REVISTA DE CHIMIE, 60(7), pp.673-677, 2009, ISSN: 0034-7752</p>
<p>Mihaly-Cozmuta, L.; Visan, T.; Mihaly-Cozmuta, Anca. Energetical aspects of heavy metals adsorbtion on natural zeolits. Influence of the environment pH on copper ions adsorbtion, REVISTA DE CHIMIE, Volume: 57, Issue: 11, 2006, 1130-1134, ISSN: 1224-7154</p>	<p>Popovici, H.; Albulescu, M.; Turuga, L.; Chiriac, A. Highlighting the interactions of heavy metals with soil components and determination of the intensity of these interactions. Journal of Environmental Protection and Ecology, 15 (1), pp. 73-77 Published: 2014, ISSN: 1311-5065</p>
	<p>Mara, Luminita; Dima, Stefan-Ovidiu; Sarbu, Andrei; Sarbu, Liliana; Zavoianu, Rodica; Taloi, Dragos; Bacalum, Fanica. Obtaining of Clinoptilolitic Extrudates for Environmental Applications II. Statistical analysis of plasticizer and shear stress effects. REVISTA DE CHIMIE, 62(11), pp. 1102-1106, 2011, ISSN: 0034-7752</p>
<p>Viman, V; Morar, M; Vatca, G; Mihaly-Cozmuta, A; Mihaly-Cozmuta, L. The pollution of forester and cultivated soils with heavy metals. REVISTA DE CHIMIE, 54(2), pp. 155-158, 2003, ISSN: 1224-7154</p>	<p>Dobra, Marina; Viman, Vasile. Determination of concentration of air and soil pollutant heavy metals by ICP-AES. REVISTA DE CHIMIE, 57(12), pp. 1283-1286, 2006, ISSN: 0034-7752</p>
<p>Mihai, A; Mihaly-Cozmuta, L; Toader, C. The mathematical moulding of the copper recovery process from waste waters using a volumic electrode. II. The calculus of the height of the cathode bed. REVISTA DE CHIMIE. 53(9), pp. 595-602, 2002, ISSN: 0034-7752</p>	<p>Cozmuta, Anca Mihaly; Cozmuta, Leonard Mihaly; Varga, Camelia' Copper electrochemical recovery from wastewaters using graphite volumic cathode. REVISTA DE CHIMIE, 58(12), pp. 1232-1238, 2007, ISSN: 0034-7752</p>

8.12.2014

Conf.dr.ing. Leonard Mihaly Cozmuta